

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995  
From: oddjob@cix.compulink.co.uk (Stephen Walters)  
Subject: Re: "Uh-oh," was RE: Help me not throw in the towel.  
Message-ID: <memo.375271@cix.compulink.co.uk>

In-Reply-To: <Pine.LNX.3.91.950626173544.11294D-100000@thelair.zynet.com>  
OK, where do I send the photo's to???

oddjob@cix.compulink.co.uk  
> would love to see it! post away! On Mon, 26 Jun 1995, Stephen Walters  
> wrote:  
>  
> > In-Reply-To: <199506261558.IAA08308@hobbes.UCSC.EDU>  
> > Well, I guess you guys will be interested in my 30 year old Valve  
> > Analog computer.....  
> >  
> > Maybe I can post you some photo's ???  
> >  
> > oddjob@cix.compulink.co.uk  
> >  
>  
>  
>  
>  
>  
>  
>       \*\*\*       Windows 95. The latest, from the company       \*\*\*  
>       \*\*\*\*\*       who brought you "TERMINAL"!       \*\*\*\*\*  
>

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995  
From: paul Veltman <veltman@netcom.com>  
Subject: Re: "Uh-oh," was RE: Help me not throw in the towel.  
Message-ID: <Pine.3.89.9507042336.A317-0100000@netcom3>

> >  
> >       \*\*\*       Windows 95. The latest, from the company       \*\*\*  
> >       \*\*\*\*\*       who brought you "TERMINAL"!       \*\*\*\*\*  
> >  
>  
>  
I thought that Windows 95 WAS "terminal". ;-)

Paul WA60KQ

"stir the pot, stir the pot, stir the pot"

From boatanchors@theporch.com Wed Jul 5 13:37:36 1995  
From: jmartin@hrlban1.aircrew.asu.edu  
Subject: 10Y tube  
Message-ID: <SA39+dAeyja@hrlban1.alhra.af.mil>

REF: Well, my BC-375 transmitter is up and alive on CW,  
but I need some pieces parts to get it back on AM.

If anyone has a 10Y (VT-25) tube, I need one  
very much to get this old vet on the nightly  
75 meter AM nets. My 10Y has an open fire-wire  
and tapping failed to revive it.

=====  
Try Antique Electronics Supply in Tempe, AZ. Their  
phone no. is (602)820-5411. I think they should be able  
to help you.  
R/ John Martin

From boatanchors@theporch.com Wed Jul 5 20:30:36 1995  
From: jmartin@hrlban1.aircrew.asu.edu  
Subject: 1935 book  
Message-ID: <SA39+uahyja@hrlban1.alhra.af.mil>

REF:  
Hi!

I have been working on a little project the last few weekends:  
photocopying a 1935 edition of the Frank C. Jones/Radio Magazine booklet  
"The Radio Amateur Newcomer." I now have a "master" set that can be used  
to make very nice copies, and I'll do it if folks are interested.

=====  
I am interested. Please count me in. The price sounds very reasonable.

73, John Martin

From boatanchors@theporch.com Wed Jul 5 20:30:36 1995  
From: "Roberta J. Barmore" <rbarmore@indy.net>  
Subject: 1935 Reprint  
Message-ID: <Pine.3.89.9507051738.M22212-01000000@indy1>

Hi!

Well, to my very great suprise there have been over a dozen requests  
for copies of the book! It \*does\* fit in a USPS "\$3.00 Special" carboard

envelope, so the total comes to \$13.00. I'll run 'em off in batches of five or six at a time (cash-flow, you know!) and send them out directly upon receipt of payment; if anyone else is interested, just let me know and I'll get your copy in the works.

73,  
--Bobbi

(Considering how this has worked out, if anyone else has got interesting and non-copyright old radio publications, let me know--might be a fun thing to do!)

From boatanchors@theporch.com Wed Jul 5 20:30:36 1995  
From: "Tony Stalls (K4KY0)" <j38@clark.net>  
Subject: Re: 1935 Reprint  
Message-ID: <Pine.SOL.3.91.950705185259.29773C-100000@clark.net>

On Wed, 5 Jul 1995, Roberta J. Barmore wrote:

> Well, to my very great suprise there have been over a dozen requests  
> for copies of the book! It \*does\* fit in a USPS "\$3.00 Special" carboard  
> envelope, so the total comes to \$13.00. I'll run 'em off in batches of  
> five or six at a time (cash-flow, you know!) and send them out directly  
> upon receipt of payment; if anyone else is interested, just let me know  
> and I'll get your copy in the works.

Bobbi,

Wait until you have the money before you have them done up. I sure we can all be patient for while.

73,  
Tony  
K4KY0

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995  
From: Steven Wilson <randyw@crl.com>  
Subject: Re: 2nd R390A good news n bad news  
Message-ID: <Pine.SUN.3.91.950704054609.1880C-100000@crl3.crl.com>

Mike if you want to check the main dial you can use the local AM stations. You will find their frequency within a few hz. I think the standard is 20 hz max. A quick PTO check will be to set BFO to "0",

IF selectivity to 0.1 and tune for null at various spots across the dial. Locally we have 550, 720, 1120, 1260 and 1600. I was amazed at how close the R-390A tracks.

From boatanchors@theporch.com Wed Jul 5 13:37:36 1995  
From: wendler@tomcat.adc.ray.com (John Wendler)  
Subject: Re: 6JB6's  
Message-ID: <9507051355.AA18099@tomcat.adc.ray.com>

Chris,  
Try Antique Electronic Supply  
602-820-5411 (Tempe, AZ, USA)  
73 de John N5CQU

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995  
From: "Frank C. Gilmore Jr." <fgilmore@gxl.woodtech.com>  
Subject: Re: 6JB6s  
Message-ID: <Pine.LNX.3.91.950704131420.11376A-1000000@gxl.woodtech.com>

On Mon, 3 Jul 1995, Chris Dorn wrote:

> Hello,  
> I would appreciate advice on where I might find matched 6JB6s for my Drake  
> TR4 at a reasonable price. I phoned RF Parts and was quoted \$102US for three  
> GEs. Canadian or American distributors would be welcome.  
> Thanks,  
> Chris VE6RDC  
>  
>

For what it's worth Chris I had a very bad experience with RF Parts on their godawful GE 6JB6s. I bought a supposedly matched pair that arrived in tattered boxes and visually it was evident they had seen a lot of use. Supposedly new old stock. Output on my Drake was 11 watts on 10 meters after neutralization. After a ton of phone calls and letters another pair came in that were only slightly better....about 23 watts out.

All communication efforts with them since have failed.

There are some out of the US companies making 6JB6s that are better than the things I got.... picked up a pair of Universals at a hamfest last year for \$15 each and they give me 45 watts out on 10. Drake keeps a list of places they know have some...and I told them about my experience

with RF Parts but I think they still have them on the list...only black mark against Drake I have ever had! Hi!

73,

Frank  
de K0JPJ ex-W5PVX ...-.-

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995  
From: dma@IslandNet.com (Jan Skirrow)  
Subject: Re: 6JB6s  
Message-ID: <m0sTCLM-000KzCC@island.amtsgi.bc.ca>

>Hello,  
> I would appreciate advice on where I might find matched 6JB6s for my Drake  
>TR4 at a reasonable price. I phoned RF Parts and was quoted \$102US for three  
>GEs. Canadian or American distributors would be welcome.

> Thanks,  
> Chris VE6RDC

>

>

>

I haven't tried this outfit, but have seen it advertised a couple of times.

Classic Radio Tubes  
510 Eldorado Road  
Kelowna, BC, V1W 1G9  
604-764-0173  
Catalog available

Jan VE7DJX

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995  
From: jml@spider.lloyd.com (Jim Lockwood)  
Subject: Re: 6JB6s  
Message-ID: <m0sTivK-0010faC@spider.lloyd.com>

At 07:38 PM 7/4/95 -0500, Frank C. Gilmore Jr. wrote:

>

>For what it's worth Chris I had a very bad experience with RF Parts on  
>their godawful GE 6JB6s.

>All communication efforts with them since have failed.

I've noticed that the RF Parts catalog has something of a disclaimer about

the use of sweep tubes in RF applications (which makes one wonder why a company that sells RF parts and bills itself as such would handle them). The unfortunate experience you had with them on this confirms my worst fears about using their tubes.

>

> picked up a pair of Universals at a hamfest last  
> year for \$15 each and they give me 45 watts out on 10.

This is encouraging. What is the country of origin and who do you know of that would normally stock Universals?

73,

Jim - km6nk

From boatanchors@theporch.com Wed Jul 5 20:30:36 1995  
From: "Frank C. Gilmore Jr." <fgilmore@gxl.woodtech.com>  
Subject: Re: 6JB6s  
Message-ID: <Pine.LNX.3.91.950705154913.810B-1000000@gxl.woodtech.com>

Jim there is not a shred of marking of origin on the tubes! Universal probably buys from Bulgaria or Russia...or China....and don't want the guys to know where they come from.

They had an ad in one of the ham magazines not too many months ago. Am thinking it was in 73. They did not give any prices but did mention 6JB6s among the sweep tubes they carried.

A fellow never knows what he's getting though at a hamfest. Three years ago when Zenith had closed down it's Springfield plant and moved production to Mexico there was a fellow with thousands upon thousands of brand new boxed Zenith tubes. I bought several hundred dollars worth because the prices were right. No 6JB6s but lots of garden variety IF tubes etc. It was a good six months before I had occasion to pull one and it was a 6BA6. Looked brand new but emission was horrible on the tube tester and receiver wouldn't even work that I stuck it in. The old one had a blown filament but it wasn't any worse than the new one. I went through some more of the Zenith tubes and found about a fourth of them bad.

He never showed up at any area hamfests again.....lot's of very angry guys I found out.

73,

de K0JPJ ex-W5PVX ...--

From boatanchors@theporch.com Wed Jul 5 13:37:36 1995  
From: djw@unlinfo.unl.edu (Daniel Wright)  
Subject: 7F8 found (8->  
Message-ID: <9507051644.AA07964@unlinfo2.unl.edu>

Due to the kindness and graciousness of Mr. Dick Dillman (a list member par excellence!), I have obtained the sought after thermionic device! Thanks to all who responded. I hope I can be of service to the list in like manner sometime.

Thanks to all es 73 de Dan -- WA0JRD ..

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995  
From: Kevin J Pease <kevin@mm1001.theporch.com>  
Subject: Re: 81 lamps  
Message-ID: <Pine.LNX.3.91.950704072209.5281B-1000000@mm1001.theporch.com>

The reading of .6 OHM could be correct. As the bulb filament heats the resistance changes to probably around 6 ohms. That is where the comments about light and tube filament inrush current comes from. When first turned on the resistance is low drawing much more than the rated current when a lamp reaches max temperature (full brilliance) the current drops to the specified nominal value. Haven't you noticed that lights normally expire at turn on time. As the filament ages it becomes brittle. The inrush current actually causes the filament to deflect causing the brittle filament to fracture.

On an aside the electric light manufacturers could most likely make a bulb that would never expire. However they would then no longer have a business so I guarantee that will never happen. Since all mighty profit is the only thing that motivates people these days.

It seems that our economy has strayed so far from agriculture so much that it is guaranteed to fail. We are almost out of manufacturing also.

That's enough digression from the subject.

Kevin J Pease  
WB0JZG Mt Juliet, TN.  
mm1001.theporch.com

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995

From: "Ray L. Mote" <rmote@rain.org>

Subject: Re: 81 lamps

Message-ID: <Pine.SUN.3.91.950704132326.24988C-100000@coyote.rain.org>

I did finally find the current rating in an old Newark catalog (#68, from 1968) as 1.05 amps. I was aware of the increase of resistance with heating, but was totally blown away by finding that it is a factor of 10! Had studied the Wien bridge over 20 years ago, so had forgotten about that little trick. Thanks for the response. Bobbi Barmore said much the same thing in her back-channel response, as well as pointing out that the only sane way to test these things is to feed 'em the rated voltage and measure the current.

On Tue, 4 Jul 1995, Kevin J Pease wrote:

>

> The reading of .6 OHM could be correct. As the bulb filament heats the  
> resistance changes to probably around 6 ohms. That is where the comments  
> about light and tube filament inrush current comes from. When first  
> turned on the resistance is low drawing much more than the rated current  
> when a lamp reaches max temperature (full brilliance) the current drops  
> to the specified nominal value. Havn't you noticed that lights normally  
> expire at turn on time. As the filament ages it becomes brittle. The  
> inrush current actually causes the filament to deflect causing the  
> brittle filament to fracture.

>

> On an aside the electric light manufacturers could most likely make a bulb  
> that would never expire. However they would then no longer have a  
> business so I guarantee that will never happen. Since all mighty profit  
> is the only thing that motivates people these days.

>

> It seems that our economy has strayed so far from agriculture so much  
> that it is guaranteed to fail. We are almost out of manufacturing also.

>

> That's enough digression from the subject.

>

> Kevin J Pease

> WB0JZG Mt Juliet, TN.

> mm1001.theporch.com

>

From boatanchors@theporch.com Wed Jul 5 20:30:36 1995

From: "Roberta J. Barmore" <rbarmore@indy.net>

Subject: A 1935 ham pamphlet reprint

Message-ID: <Pine.3.89.9507051149.A9818-0100000@indy2>



Hi!

I have been working on a little project the last few weekends: photocopying a 1935 edition of the Frank C. Jones/Radio Magazine booklet "The Radio Amateur Newcomer." I now have a "master" set that can be used to make very nice copies, and I'll do it if folks are interested.

As far as I know, it wasn't copyrighted--an oversight? Anyway, it had to be enlarged slightly to fit on an 8.5"x11" page, and the copies came out very clean. The pix in the final copy are decent, about the same quality as the originals in Gernsback's "Short Wave Craft" from around the same time.

The booklet runs to 64 pages, with quite a few photographs, and includes construction of HF receivers (regens and Jones' Super Gainer superhets) and transmitters (from a push-pull xtal osc running low power, to a P-P 210 amp for it running over 50W to the Jones Multi-Band Exciter in several variants up to a big 50W, P-P RK25 version) and a bit about antennas and antenna coupling, plus the usual "becoming a ham" section, the pertinent parts of government regs as of '35, a short chapter on building a 5 and 2.5 meter transceiver, and several pages of interesting ads.

The local copy outfit charged just shy of US\$10 to recopy it all on heavy cardstock and wire-bind it, and if anyone's interested, I can make more at cost plus postage. It would probably cut the price about in half to have all but the covers done on standard-weight paper, though it's not as sturdy that way. Covers are "goldenrod," a little brighter than manila paper, and the rest is on "ivory" (buff-colored like a Vu meter scale); the original cover is navy blue and tomato red/orange on white but was a bit torn up and color copies of it looked pretty sad.

73,  
--Bobbi

From boatanchors@theporch.com Wed Jul 5 20:30:36 1995  
From: "Barry L. Ornitz" <ornitz@EMNGW1.emn.com>  
Subject: Re: Advice wtd stick p.i cores  
Message-ID: <Pine.ULT.3.91.950705193746.22340B-100000@dua150.kpt.emn.com>

On Mon, 3 Jul 1995, Roberta J. Barmore wrote:

> (Hank? Barry? What's the Inside Word on oily slugs?) (ick!) :)  
> 73,  
> --Bobbi >

I cannot resist! Oily slugs = Boatanchor Escargot! :-)

Actually I don't think a quick shot of WD-40 should hurt the coils but it may prevent epoxy from sticking to them in the future so glue the forms back in place first. I have usually had success using an Allen wrench heated with a soldering iron - if you are lucky enough to get a core with a hex hole. Otherwise, I have used a small heat gun. Oh. And I was not always successful, especially if the original core was locked in place with glyptal cement.

73, Barry WA4VZQ ornitz@emn.com

From boatanchors@theporch.com Wed Jul 5 13:37:36 1995  
From: "James T Hanlon" <jthanlo@jade.imdi.sandia.gov>  
Subject: RE: Am I nuts  
Message-ID: <9506058049.AA804965497@jade.imdi.sandia.gov>

John,

Yes, you are. Leave all of that stuff in New Mexico!

(Guess where I am.)

73,

Jim, W8KGI

From boatanchors@theporch.com Wed Jul 5 13:37:36 1995  
From: johnmb <johnmb@nando.net>  
Subject: Am I nuts?  
Message-ID: <Pine.SUN.3.91.950705115206.7923A-100000@parsifal.nando.net>

I just got back from NM, in a vain attempt to organize a move of all my belongings 1500 miles or so eastward. I not owning a garage here yet, I am paying \$59 a month to store about 2000 lbs of electronics mostly consisting of Boatanchor supplies and general Old Stuff. The monthly rental and subsequent transportation of all this stuff certainly far outweighs all tangible value of it.

Perhaps the moment I most realized how seriously loopy I am, is when I was boxing up a box. Yes, I was boxing an original 40 year old Ranger I EF Johnson shipping box, for transport to my new location.

Am I totally nuts to be moving all this? Why do I \_have\_ all this?! I know all of this stuff complicates my life, and makes this move a Big Issue.

/john

PS: You should have seen the moving rep counting my BA gear Monday morning. ("19, 20, 21.... 27 radios, correct?") . Interestingly, he said the last ham he moved had a key collection totalling over 100.

PSS: Gotta go to lunch, and stop by the Post Office. There is a radio there to be picked up. Thanks Tom!!! ...outa control...

From boatanchors@theporch.com Wed Jul 5 13:37:36 1995  
From: "Dick Dillman" <ddillman@igc.apc.org>  
Subject: Re: Am I nuts?  
Message-ID: <199507051643.JAA29384@igc3.igc.apc.org>

> I just got back from NM, in a vain attempt to organize a move  
> of all my belongings 1500 miles or so eastward. I not owning a garage  
> here yet, I am paying \$59 a month to store about 2000 lbs of electronics  
> mostly consisting of Boatanchor supplies and general Old Stuff.

Are you nuts? But of course! And the happier for it, I hope. But I think you got a deal on the storage space.

> The monthly rental and subsequent transportation of all this stuff  
> certainly far outweighs all tangible value of it.

Tangible value of a BA? That's like those articles that pop up every once in a while giving the tangible value of the human body for its chemicals, metals, etc. Clearly, we're talkin' emotional, not tangible, value here.

> PS: You should have seen the moving rep counting my BA gear  
> Monday morning. ("19, 20, 21.... 27 radios, correct?") . Interestingly,  
> he said the last ham he moved had a key collection totalling over 100.

Now you're making me nervous. I've been at my place for more than twenty years and the stuff has been, how shall we say... increasing over that period. I've been dreading the day I have to move for some time.

> PSS: Gotta go to lunch, and stop by the Post Office. There is  
> a radio there to be picked up. Thanks Tom!!! ...outa control...

Ah, spoken like a true enthusiast. There's a R-390A due here today!

Best Regards,

Dick Dillman/WPE2VT  
<ddillman@igc.apc.org>  
San Francisco

From boatanchors@theporch.com Wed Jul 5 13:37:36 1995  
From: clarke@acme.ist.ucf.edu (Thomas Clarke)  
Subject: Re: Am I nuts?  
Message-ID: <m0sTXai-0006WsC@next1.acme.ist.ucf.edu>

I was just discussing with the XYL my plan to convert an unused corner of the garage into an air-conditioned closet opening off the office/shack/guest-room.

She proceeded to tell me that she saw on a talk show that excessive aquisitiveness is an organic condition. Apparently you might be able to take a pill to stop this insane desire to move electronic equipment around the country.

Say it ain't so, bunky.

Tom Clarke  
KE4VFH

From boatanchors@theporch.com Wed Jul 5 13:37:36 1995  
From: "James T Hanlon" <jthanlo@jade.imdi.sandia.gov>  
Subject: Re: Am I nuts?  
Message-ID: <9506058049.AA804968502@jade.imdi.sandia.gov>

John,

Why would you want to get all of those export/import certificates and pay duty to move all of that stuff from NM into the United States? Leave it where it is!

Jim, W8KGI

From boatanchors@theporch.com Wed Jul 5 20:30:36 1995  
From: "Tony Stalls (K4KY0)" <j38@clark.net>  
Subject: Re: Am I nuts?  
Message-ID: <Pine.SOL.3.91.950705142303.27843E-100000@clark.net>

On Wed, 5 Jul 1995, johnmb wrote:

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> I just got back from NM, in a vain attempt to organize a move  
> of all my belongings 1500 miles or so eastward. I not owning a garage  
> here yet, I am paying \$59 a month to store about 2000 lbs of electronics  
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> Perhaps the moment I most realized how seriously loopy I am, is when  
> I was boxing up a box. Yes, I was boxing an original 40 year old  
> Ranger I EF Johnson shipping box, for transport to my new location.  
>  
> Am I totally nuts to be moving all this?

Yes, but you're in good company.

"They're coming to take me away, ha-ha, ho-ho, hee-hee... To the funny farm with trees and flowers and birds that sing and basket weavers who sit and smile and twiddle their thumbs and toes and they're coming to take me away, ha-ha..." (Napoleaon the XIV - 1967) It'll be your moving company, THIS TIME. ;-)

73,

Tony  
K4KY0

From boatanchors@theporch.com Wed Jul 5 20:30:36 1995  
From: "Kenan, Larry" <llk@sandshark.sandiegoca.ATTGIS.COM>  
Subject: re: Am I nuts?  
Message-ID: <2FFB05F7@sharkgate.sandiegoca.attgis.com>

johnmb wrote:

>PS: You should have seen the moving rep counting my BA gear  
>Monday morning. ("19, 20, 21.... 27 radios, correct?") . Interestingly,  
>he said the last ham he moved had a key collection totalling over 100.

The last two times that I moved, to Ireland and back, my collection of about 80 radios (more broadcast than BA though) sat in storage for the time that I was out of the country. I brought another dozen back from Ireland to add to the collection. I really was itching to get them unpacked but it ended up taking me three months to get display space and a workshop set up before I could complete the unpacking and to finally be able to get the car in the garage.

Larry Kenan

From boatanchors@theporch.com Wed Jul 5 13:37:36 1995  
From: wb4ijn@awod.com (Steve Thomason)  
Subject: AM Press/Exchange, another view  
Message-ID: <199507051414.KAA26990@sumter.awod.com>

Tony recently posted:

>The AM Press/Exchange newsletter #115 arrived today. There is an  
>interesting lead article, one regarding the future of AM, one about the  
>return of vacuum tubes, and a couple of construction articles. The issues  
>come out irregularly, but when they do, they're worth the wait. If you  
>don't subscribe, you might consider doing so as it's only \$10 for twelve  
>issues. Send your subscription to Don Chester, K4KYV, The AM  
>Press/Exchange, 2116 Old Dover Road, Woodlawn, TN 37191  
>

Unfortunately, I have not had good experiences with the AM/Press Exchange, or with Don Chester, as a matter of fact. For those who are not familiar with the "publication" and think that it might be similar to "Electric Radio", think again. The last time I got an "issue", it was "typed" on what appeared to be a typewriter, and not very well at that, and was "Xeroxed", and not very well at that, either. As far as Mr. Chester, the last time I was unfortunate enough to engage in a "QSO" with him, he ran most everyone off the frequency by making one of the dreaded "old buzzard" transmissions that lasted in excess of 20 minutes without skipping a beat or unkeying the rig. The same behavior has been observed on MANY occasions.

Personally, I'll pass on the "AM Press", and on Mr. Chester QSO's, or should I say "monologues" as well.

73, Steve, WB4IJN

Internet: wb4ijn@awod.com  
Packet: WB4IJN@N4CII

From boatanchors@theporch.com Wed Jul 5 13:37:36 1995  
From: Steve Ellington <n4lq@iglou.com>  
Subject: Re: AM Press/Exchange, another view  
Message-ID: <Pine.SOL.3.91.950705105458.1036A-100000@iglou.iglou.com>

On Wed, 5 Jul 1995, Steve Thomason wrote:

> Tony recently posted:  
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> >The AM Press/Exchange newsletter #115 arrived today. There is an  
> >interesting lead article, one regarding the future of AM, one about the  
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> >don't subscribe, you might consider doing so as it's only \$10 for twelve  
> >issues. Send your subscription to Don Chester, K4KYV, The AM  
> >Press/Exchange, 2116 Old Dover Road, Woodlawn, TN 37191  
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> Unfortunately, I have not had good experiences with the AM/Press  
> Exchange, or with Don Chester, as a matter of fact. For those who  
> are not familiar with the "publication" and think that it might be  
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> by making one of the dreaded "old buzzard" transmissions that lasted  
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> The same behavior has been observed on MANY occasions.  
>  
> Personally, I'll pass on the "AM Press", and on Mr. Chester QSO's, or  
> should I say "monologues" as well.  
> 73, Steve, WB4IJN  
>  
> Internet: wb4ijn@awod.com  
> Packet: WB4IJN@N4CII  
>  
>AW Common'. I like listening to Don. Reminds me of the old AM days  
when you tried to talk your qso partner under the table! Besides,  
Don probably needs the extra money to pay the power company!  
73:)

Steve  
n4lq@iglou.com

From boatanchors@theporch.com Wed Jul 5 20:30:36 1995  
From: "Tony Stalls (K4KY0)" <j38@clark.net>  
Subject: Re: AM Press/Exchange, another view  
Message-ID: <Pine.SOL.3.91.950705135930.27843A-100000@clark.net>

On Wed, 5 Jul 1995, Steve Thomason wrote:

> Tony recently posted:  
>  
> >The AM Press/Exchange newsletter #115 arrived today. There is an  
> >interesting lead article, one regarding the future of AM, one about the  
> >return of vacuum tubes, and a couple of construction articles. The issues  
> >come out irregularly, but when they do, they're worth the wait. If you  
> >don't subscribe, you might consider doing so as it's only \$10 for twelve  
> >issues. Send your subscription to Don Chester, K4KYV, The AM  
> >Press/Exchange, 2116 Old Dover Road, Woodlawn, TN 37191  
> >  
> Unfortunately, I have not had good experiences with the AM/Press  
> Exchange, or with Don Chester, as a matter of fact. For those who  
> are not familiar with the "publication" and think that it might be  
> similar to "Electric Radio", think again. The last time I got an  
> "issue", it was "typed" on what appeared to be a typewriter, and not  
> very well at that, and was "Xeroxed", and not very well at that,  
> either. As far as Mr. Chester, the last time I was unfortunate enough  
> to engage in a "QSO" with him, he ran most everyone off the frequency  
> by making one of the dreaded "old buzzard" transmissions that lasted  
> in excess of 20 minutes without skipping a beat or unkeying the rig.  
> The same behavior has been observed on MANY occasions.

Well, this is certainly "another view" alright.

I'll just say to the gang that Don's homespun effort is a one-man operation and in spite of it's lack of slickness, I do enjoy it's content and I believe that most here will.

As I've quit operating AM and have only talked to Don on the air one time, I can't say one way or the other whether or not he rattles on. However, if he does, he's certainly not alone and I don't see what it has to do with the the worth of the AM Press/Exchange newsletter.

73,

Tony  
K4KY0



From boatanchors@theporch.com Wed Jul 5 20:30:36 1995  
From: Kevin J Pease <kevin@mm1001.theporch.com>  
Subject: Re: AM Press/Exchange, another view  
Message-ID: <Pine.LNX.3.91.950705162723.23943A-100000@mm1001.theporch.com>

I have never seen Don's news letter. However I have talked with don on more than one ocasion. He mayu ramble o but if you really listen to what he says there is knowlege and content to his ramblings. He is practicing the lost art of haveing a QSO that is not just an rst report,brag about your equipment and go an to brag to someone else. I really have enjoyed the QSO's that I have had with don. If we were not all so impatient maybe others of us could enjoy also. I have gotten Don talking about some interesting things both technical and otherwise.

There is a place for all types of QSO's but not many hams know how to get the interesting,enjoyable ones going.

So please cut Don some slack as he is a sincere and knowlegable ham and can carry on a good QSO. Don is a good example of a practicing BA enthusiast.

Kevin J Pease  
WB0JZG Mt Juliet, TN.  
mm1001.theporch.com

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995  
From: "Linton G. & Cheryl K. Robert" <74723.2416@compuserve.com>  
Subject: Apache+Mohawk twins fors sale  
Message-ID: <950704181131\_74723.2416\_EHL114-1@CompuServe.COM>

For Sale: Heathkit Mohawk & Apache Xmtr+RX+SSB adapter+SWR meter...a matched station. Fair to Good condx. \$425. Respond to CompuServe 74723, 2416.

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995  
From: larry.the.lid@environet.org  
Subject: Apostrophies  
Message-ID: <9507041749.0P1MP00@environet.org>

Remember fellas, plurals never have apostrophies and 73 is ALWAYS singular. 73s or, even worse, 73's is very poor form indeed.

73's

Larry

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995  
From: "Hal R. Waite" <halwaite@netcom.com>  
Subject: Re: Apostrophies  
Message-ID: <Pine.SUN.3.91.950704204424.19473A-100000@netcom9>

On Tue, 4 Jul 1995 larry.the.lid@environet.org wrote:

>  
>  
>  
> Remember fellas, plurals never have apostrophies and 73 is ALWAYS singular.  
> 73s or, even worse, 73's is very poor form indeed.  
>  
> 73's  
>  
> Larry

Don't you realize that 73's means "Best Regardzies" which is the plural of best regards?

Hal K4GFI/7

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995  
From: Bill VanAlstyne <bill@cruz.com>  
Subject: Re: Apostrophies  
Message-ID: <199507050459.AA03469@cruz.com>

At 08:02 PM 7/4/95 -0500, larry.the.lid@environet.org wrote:

>  
>Remember fellas, plurals never have apostrophies and 73 is ALWAYS singular.  
>73s or, even worse, 73's is very poor form indeed.

I \*agree\* it's poor form, BUT as a point of English usage, I must take exception to this assertion... To quote from the American Heritage Dictionary of the English Language (1970), under "plural" (usage):

"Terms made up of single letters or numbers, or groups of letters or numbers, are made plural by addition of 's or s ...[examples omitted]..."

So, either 73's or 73s constitutes correct construction of the plural form for this "noun" -- though of course it *\*is\** redundant, as many have pointed out repeatedly since my earliest ham radio days in the early 60's [sic], and probably long before that...

But after all, it's the thought that counts!

Bests regardses,  
Bill, N6FN

From boatanchors@theporch.com Wed Jul 5 20:30:36 1995  
From: n5off@w5ddl.aara.org  
Subject: ARR-41 Tube info  
Message-ID: <129966@w5ddl.aara.org>

Here is the info I have on the subject rig.

Tell Wally Chambers

- 1) I said hello
- 2) get a confuser :-)

-----  
ARR-41 Info

Tubes

5749 1st IF amp  
5749 2nd IF amp  
5749 2nd IF amp  
5749 3rd IF amp  
5726 Detector and AVC  
5726 NL and AVC  
5749 BFO  
6AU6WA RF Osc  
5749 1st RF  
5749 2nd RF  
5750 1st Mixer  
5654 Spec Gen Osc  
5814 Multivibrator Divider  
0A2WA Volt Reg  
5814A AF amp  
5686 AF amp  
5750 VFO

Fixed IF 500 Kcs

Can't find the filter numbers. They are 500 Kcs 6 disk mechanical.

-----  
Reply to:  
packet n5off@k5arh.la.usa  
Email (home) n5off%w5ddl.aara.org@usl.edu  
Email (work) tfma@chevron.com  
Lafayette, LA  
office 318-989-3430  
home 318-984-2561

From boatanchors@theporch.com Wed Jul 5 13:37:36 1995  
From: Clark Fishman (FSAC) <cfishman@fsac3.pica.army.mil>  
Subject: BA  
Message-ID: <9507050840.aa10199@FSAC3.PICA.ARMY.MIL>

definition: BA collector....a kid in an old body

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995  
From: Dave Stinson AB5S/7 <72227.1640@compuserve.com>  
Subject: BC-375 LIVES! (almost...)  
Message-ID: <950705062714\_72227.1640\_EHM30-1@CompuServe.COM>

Well, my BC-375 transmitter is up and alive on CW,  
but I need some pieces parts to get it back on AM.

If anyone has a 10Y (VT-25) tube, I need one  
very much to get this old vet on the nightly  
75 meter AM nets. My 10Y has an open fire-wire  
and tapping failed to revive it.

Also, some connectors would be nice. Might as  
well ask for gold, but what the heck...

Thanks, everyone.  
Dave AB5S/7

by the way....does anyone know a good reason I can't  
run the 211 filaments at 8VDC instead of 10VDC?

Thanks again

From boatanchors@theporch.com Wed Jul 5 20:30:36 1995  
From: wa6jpr@engsrv.qsc.com (Wally Linstruth - WA6JPR)  
Subject: re: cruddy audio  
Message-ID: <9507052338.AA13362@engsrv.qsc.com>

> AAAARRRRGGGG! Don't we have enough digital stuff? What would it take to  
> get these manufactures to put decent audio amplifiers in their  
> rigs. Most of these \$3,000 transceivers have 10% or more distortion.  
> Why is this? Don't they know that this causes "listner fatigue"???

>  
> Steve  
> n4lq@iglou.com  
>  
>

One of my pet peeves! I can't believe the lack of regard for good clean loud audio so universal on the part of RADIO makers, especially MOBILE RADIO makers. I never knew how well I had it when my thing was doing simplex (only) FM with Motorola BA radios and a tall 'J' antenna on the car. Also difficult to find real speakers in the corner radio shack.

Speaking of Js, I wonder if anyone out there might have a copy of the Oliver Wright antenna notes from the 50s I believe. I seem to have lost mine in a move or through brain fade.

New to the list - lots of fun - 73 all - Wally - WA6JPR

From boatanchors@theporch.com Wed Jul 5 13:37:36 1995  
From: wendler@tomcat.adc.ray.com (John Wendler)  
Subject: Crystals for SX-117, ARC-5 1.5-3.0 Mc/s Rcvr  
Message-ID: <9507051413.AA18174@tomcat.adc.ray.com>

A friend is looking for the following crystals for a SX-117 and matching transmitter. He thinks that the holders are CR-18 or CR-23 (?)

qty	Description
1	18 MHz alignment crystal
2	35.5 MHz
2	34.4 MHz
2	36.0 MHz
1	24.5 MHz

1 31.0 MHz  
1 50.75 KHz Alignment crystal

The friend is Bruce, K5FY, who is also a diehard ARC-5 collector/restorer. His aesthetic is to restore gear to its original condition and then to operate it to prove that the restoration worked. In addition to the crystals, he is looking for a ARC-5 1.5-3.0 MHz receiver.

Contact Bruce directly at [bruceh@ord.gov](mailto:bruceh@ord.gov)

Thanks,  
John N5CQU

From [boatanchors@theporch.com](mailto:boatanchors@theporch.com) Wed Jul 5 13:37:36 1995  
From: [morgan@speckle.ncsl.nist.gov](mailto:morgan@speckle.ncsl.nist.gov) (Roy Morgan)  
Subject: Re: Dinner get-together at Gaithersburg MD in Sept.  
Message-ID: <9507051525.AA25037@speckle.ncsl.nist.gov>

>We usually like to cook out at the hamfests we attend,

I vote for the cookout!

There ain't any restaurants around here which have R-390's for background "music".

(I just got the R-390 going over the weekend - wanna borrow it for the event station?"

-- Roy --

Roy Morgan / Tech A-266 / NIST / Gaithersburg MD 20899  
(National Institute of Standards and Technology, formerly NBS)  
301-975-3254 Fax: 301-948-6213 Internet: [morgan@speckle.ncsl.nist.gov](mailto:morgan@speckle.ncsl.nist.gov)  
---

From [boatanchors@theporch.com](mailto:boatanchors@theporch.com) Wed Jul 5 13:37:36 1995  
From: "Tony Stalls (K4KY0)" <[j38@clark.net](mailto:j38@clark.net)>  
Subject: Drake Faux Pas  
Message-ID: <Pine.SOL.3.91.950705082259.16462B-1000000@clark.net>

On Tue, 4 Jul 1995, Frank C. Gilmore Jr. wrote:

> There are some out of the US companies making 6JB6s that are better than

> the things I got.... picked up a pair of Universals at a hamfest last  
> year for \$15 each and they give me 45 watts out on 10. Drake keeps a  
> list of places they know have some...and I told them about my experience  
> with RF Parts but I think they still have them on the list...only black  
> mark against Drake I have ever had! Hi!

I sent the TR-7 I sold a year or so ago back to them for a complete going over and they missed a bad 500 Hz CW filter altogether. As that was an obvious flaw, I would have thought that they should have picked it up in the first couple of minutes on the bench.

73,  
Tony  
K4KY0

From boatanchors@theporch.com Wed Jul 5 20:30:36 1995  
From: Steve Ellington <n4lq@iglou.com>  
Subject: FS: Old Microphone  
Message-ID: <Pine.SOL.3.91.950705163642.18178A-1000000@iglou.iglou.com>

Desk mike. Heavy cast metal On the fron it says Recordio and has a round WG emblem on the metal grill.On the back is the following

Controlled Reluctance  
Microphone Model CR80G  
Manufactured by  
SHURE BROTHERS  
Chicago, U.S.A.

It has a cotton coverd lead with a standard phone plug and the whole thing is in very good condition. Dimentions are about 3"h x 3"w x 1" thick and it has a flanged base. It is pewter in color and the emblem is gold.

Is anyone interested?

Steve  
n4lq@iglou.com

From boatanchors@theporch.com Wed Jul 5 13:37:36 1995  
From: Clark Fishman (FSAC) <cfishman@fsac3.pica.army.mil>  
Subject: Gaithersburg  
Message-ID: <9507051156.aa18444@FSAC3.PICA.ARMY.MIL>

Cookout...cookout...cookout...YES...I always get there on Saturday  
and sleep outside....A BA cookout.....let's not use old food.....

WA2UNN

From boatanchors@theporch.com Wed Jul 5 20:30:36 1995  
From: "Tony Stalls (K4KY0)" <j38@clark.net>  
Subject: Re: Gaithersburg  
Message-ID: <Pine.SOL.3.91.950705142039.27843D-100000@clark.net>

I'll ask the Foundation for Amateur Radio organizers if we can do that on  
the fairgrounds on Saturday night.

73,

Tony  
K4KY0

On Wed, 5 Jul 1995, Clark Fishman wrote:

>  
> Cookout...cookout...cookout...YES...I always get there on Saturday  
>  
> and sleep outside....A BA cookout.....let's not use old food.....  
>  
> WA2UNN  
>  
>

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995  
From: Joe Reda/HQ/3Com <Joe\_Reda@3mail.3Com.COM>  
Subject: Re: Germanium transistors, was Re: Brief Livermore Report  
Message-ID: <9507050213.AA0941@hqsmtp.ops.3com.com>

Bobbi sez . . .

> 3. I have not the least idea if the HRO-500 used any germanium  
>transistors. It's certainly plausible enough that it did.

Yep, it sure does . . and they are replaceable by SK or ECG replacements;  
although you may have to try a few to get best operation, they \*will\* work.



Someday I'm gonna try running through my '500 with equivalent-rated silicon transistors and see if I can 'soup up' the radio's performance . .

//Joe KC6TXU

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995  
From: bsn@fusion.ph.utexas.edu  
Subject: Halli S-120  
Message-ID: <v01510100ac1f524e82ec@[128.83.112.66]>

I might have a chance to get my hands on a Hallicrafters S-120 RX. Not being a Halli person, I'm not familiar with this RX. I would appreciate hearing from the experts with respect to the specs and their thoughts, good or bad about this RX.

Thanks,  
Barry W5KH

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995  
From: mshaum@xnet.com (Mark Shaum)  
Subject: Re: Halli S-120  
Message-ID: <199507050345.WAA15787@quake.xnet.com>

>I might have a chance to get my hands on a Hallicrafters S-120 RX. Not  
>being a Halli person, I'm not familiar with this RX. I would appreciate  
>hearing from the experts with respect to the specs and their thoughts, good  
>or bad about this RX.

>

Barry, the S-120 is basically your all-american five AM broadcast set with three shortwave bands thrown in. The single IF amp is made regenerative to serve as a BFO. I used one of these nice looking but poorly performing (for real QSO's, anyway) for a month as a novice. It's adequate for casual listening on 80 and 40, and SW bands below 10 Mhz or so. Above that, the lack of an RF stage and 455 Khz IF makes for image city. The regenerative IF stage actually did narrow things to the point where I was able to pull out about 40 QSO's in the last two weeks I used it (found my original logs tonight!), mostly in the then crystal-controlled novice subband on 40.

It was not long before I invested in a Heath SB301, with the help of my Dad and the Heath ez-monthly payment plan. Never went back to the S120 after

that. I still have it, although it's now missing tubes, speaker, audio output tranny and one knob. If I could ever find a knob, I'd probably restore the thing and use it for AM broadcast and 160 meter AM listening.

73! - Mark, NE9G

.

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995  
From: rblank@legend.txdirect.net (Richard A. Blank)  
Subject: Re: Halli S-120  
Message-ID: <9507050406.AA01249@legend>

>I might have a chance to get my hands on a Hallicrafters S-120 RX. Not  
>being a Halli person, I'm not familiar with this RX. I would appreciate  
>hearing from the experts with respect to the specs and their thoughts, good  
>or bad about this RX.

>

>Thanks,

>Barry W5KH

>

The S-120 was introduced by Hallicrafters in 1960 as a replacement for the S-38 series...it was a single conversion superhet, 455kHz IF, 4 tubes plus selenium rectifier...it was a simple, cheap little receiver...list price was \$69.95.... current value of the receiver is between \$20.00 and \$40.00 for one in real nice shape with box, papers, etc....

This was a real "entry level" receiver and was probably used more as a SWL receiver than even a novice receiver...for a little more money, \$35, the prospective ham could step into a ham-bands only receiver, the SX140K, a Hallicrafters kit, that offered a better ham receiver than the S-120, and had other niceties like an antenna trimmer, ANL, S-meter, crystal marker, etc....

Just my 2 cents

Rick Blank, KI5SL

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995  
From: mirage!pamars@uhura.neoucom.EDU (P.A.Marshall)  
Subject: Re: Help building a receiver  
Message-ID: <9507041147.AA01261@mirage>

Following up on this thread, I have also been working on building a

one band, one knob receiver. The tube line up and circuit questions were (for better or worse) quickly settled, but for me the real stumper was designing the RF and HFO tuned circuits so that they would track properly, it is possible to get tracking with zero error at three points, but if you think this would be simple (as I did), you might want to just give it a try before reading on :-). Well as you may have guessed already, I did find a solution, and I have written a short program that solves what I think is the general case problem. Any one wanting a copy (it's in C) drop me a line, if there are many requests I would rather post it and Jack can place it in the archives.

```

/*
/*  Design RF and HFO tuned circuits for a superheterodyne with the HFO
/*  working above the RF stage(s), and using a ganged tuning condenser
/*  with all sections identical. Inputs are the full meshed and full
/*  open tuning condenser capacity, the i-f frequency, and the frequency
/*  to be rec'd with the tuning condenser full meshed. Tube input and
/*  stray capacity is assumed to be 15uuf, but this may be easily changed.
/*  The RF and HFO tuned circuits are assumed as follows:
/*
/*      RF              HFO
/*      ---
/*      <  | C-gang      <  | C-gang  | Trimmer
/*      <  ===          <  ===      ===
/*      <---|          <---|---|-----|
/*                          || Padder
/*

```

Al Marshall    "Real Radios Glow in the Dark"    almarshall@acm.org

As nightfall does not come at once, neither does oppression. In both instances, there is a twilight when everything remains seemingly unchanged. And it is in such twilight that we all must be most aware of change in the air--however slight--lest we become unwitting victims of the darkness.

Justice William O. Douglas

From boatanchors@theporch.com Wed Jul 5 13:37:36 1995  
 From: Schroeder.Wbst207V@xerox.com  
 Subject: HQ-170 Question  
 Message-ID: <"5-Jul-95 11:43:31".\*.Schroeder.wbst207v@Xerox.com>

Hollowstaters,

This weekend I finally was able to start working on my recently acquired HQ-170. No problems encountered, sounding good after a partial front-end alignment.

Question: My HQ-170 has a small added subchassis added next to the 60 kc IF. Appears to be a 455 kc noise blanker / limiter? Anyone have any information / schematic for this addition? The manual doesn't mention anything. From the similiar construction as the rest of the receiver, I assume it was made by Hammarlund.

73 Russ W2DYY

[schroeder.wbst207v@xerox.com](mailto:schroeder.wbst207v@xerox.com)

From [boatanchors@theporch.com](mailto:boatanchors@theporch.com) Wed Jul 5 13:37:36 1995  
From: "James T Hanlon" <[jthanlo@jade.imdi.sandia.gov](mailto:jthanlo@jade.imdi.sandia.gov)>  
Subject: RE: HQ-170 Question  
Message-ID: <9506058049.AA804965496@jade.imdi.sandia.gov>

Russ,

Yes, you have a Hammarlund-made noise blanker. I have one in either my HQ-170 or HQ-180, they will work in both of them. I'll look for info in the manuals this evening.

Jim, W8KGI

From [boatanchors@theporch.com](mailto:boatanchors@theporch.com) Wed Jul 5 05:26:20 1995  
From: Joe Reda/HQ/3Com <[Joe\\_Reda@3mail.3Com.COM](mailto:Joe_Reda@3mail.3Com.COM)>  
Subject: Re: HRO-500 et al...  
Message-ID: <9507050213.AA0954@hqsmtp.ops.3com.com>

>I now have the HRO-500, the NCX-5, and the matching NCL-2000 linear. They  
>all work fine and constitute one of the dream stations of the sixties.

I have to agree with Mike . . I have an HRO-500 and NCX-5. Great radios both. The HRO-500 just isn't the bugaboo folks say it is and I believe its famous reputation to be somewhat unjustified:

"It's hard to work on. You have to take everything apart." Well, yes . . just like the HRO-60 or parts of the Hammarlund SP-600 or the R-392. So?? I personally found the HRO-60 to be much worse than the HRO-500 in terms of difficulty. The trade-off:  
once you've done it, it's really easy the next time.

"The HRO-500's circuitry is hard to understand." If I can (somewhat) understand it, anyone can. Think tube-type triple conv superhet with a PLL thrown in.

"You have to use EXACT REPLACEMENT transistors. No SK or ECG replacements, they won't work." This is perhaps the most famous of the '500 myths. At this moment, my '500 is purring away with \*three\* SK-replacement transistors. What would be more correct would be: "not every SK or ECG transistor will work. Tolerances vary."

One thing, though . . . you just must have a scope to service the '500, and a frequency counter is highly recommended. And be sure to pay strict attention to the alignment of the 4.75 synthesiser IF strip . . .

Cheers //Joe KC6TXU

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995  
From: gcarter@Libris.Public.Lib.GA.US (Greg Carter)  
Subject: Info Triplet Model 3413  
Message-ID: <9507041243.AA04698@Mail.Public.Lib.GA.US>

Anyone out there have any info on a Triplet 3413 Tube Tester ???

Is it a good one and what would be a fair price?? I've found one but don't know anything about it's worth....would it compare to the Hickcock's, etc ??

Thanks!  
Greg  
KX4R  
e-mail: gcarter@mail.public.lib.ga.us

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995  
From: gcarter@Libris.Public.Lib.GA.US (Greg Carter)  
Subject: Info Triplet Model 3413  
Message-ID: <9507042058.AA05953@Mail.Public.Lib.GA.US>

Anyone out there have any info on a Triplet 3413 Tube Tester ???

Is it a good one and what would be a fair price?? I've found one but don't know anything about it's worth....would it compare to the Hickcock's, etc ??

Thanks!

Greg

KX4R

e-mail: gcarter@mail.public.lib.ga.us

From boatanchors@theporch.com Wed Jul 5 13:37:36 1995

From: "Bob Scott" <bob\_scott@cpqm.saic.com>

Subject: Misc FS de AOL

Message-ID: <n1407204037.12231@cpqm.saic.com>

Please respond the the original posters.

Subject: FS...Old Tubes

From: dbiglands@aol.com (DBiglands)

From boatanchors@theporch.com Wed Jul 5 13:37:36 1995

From: Don\_Burns-EPUR01@email.mot.com

Subject: National Panasonic

Message-ID: <"Macintosh \*/PRMD=MOT/ADMD=MOT/C=US/"@MHS>

The name "National" is the brand name that Matsushita has used for years in the far east, and then subsequently in Europe. Many of the USA sold electronic products sold under the brand name of Panasonic can also be found in Japan, Taiwan, Dingapore, Indonesia, etc. with the National name. But Matsushita make far more than electronics: They also manufacture and sell major home appliances such as refrigerators, electric ranges, window airconditioners and the like. The National name started to show up in the US a few years ago on the west coast in the appliance stores and has been working its way east. Just saw a few friges in a discount appliance place this weekend. They are probably making these somewhere in the states by now.

--

Don Burns

Motorola Inc.

North American Radio Systems Divn

Plantation, FL U.S.A.

\ Motorola E-Mail: epur01

\ Internet:epur01@email.mot.com

\ Voice: 305-723-5518

\ Fax: 305-723-4343

X.400: /c=us/admd=attmail/prmd=motorola/g=don/s=burns/ddt=id/ddv=epur01/

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995

From: "Frank C. Gilmore Jr." <fgilmore@gxl.woodtech.com>

Subject: Re: National Panasonic???

Message-ID: <Pine.LNX.3.91.950704133318.11376D-100000@gxl.woodtech.com>

On Mon, 3 Jul 1995, don merz wrote:

> What the heck is "national Panasonic?" I found this odd transistor radio  
> today that has shortwave 4-12"mc" and AM. No model number anywhere--inside  
> or out. Anyone recognize this? That's not "our" National, is it?  
>  
>

No way Don. It is/was an offshoot of Panasonic. I have pretty cruddy  
multiband portable made by them in about 77 ... drifts like a bandit.

73,

Frank  
de K0JPJ ex-W5PVX ...--

From boatanchors@theporch.com Wed Jul 5 20:30:36 1995  
From: jmartin@hrlban1.aircrew.asu.edu  
Subject: Organ pipe speaker(s)  
Message-ID: <SA39+9Yhyja@hrlban1.alhra.af.mil>

REF: Wow. Just think, CW sound with the rich quality of a fine pipe organ.  
Gives me big ideas like making the tube from brass. A miniture pipe  
organ pipe would look good on my desk next to my Schurr key paddle!  
Thanks and 73.  
>

Yes, you could have separate pipes, each individually tuned and ready to  
speak whatever CW pitch you wanted to listen to! You could wire all of them  
in parallel (with appropriate measures to keep the impedance reasonably  
matched to your audio amp output, or course), then as you varied your BFO  
to shift the pitch, the sound would physically travel back and forth from pipe  
to pipe, depending on which one happened to resonate with what your  
receiver was putting out. To do it right, a person ought to have at least an  
octave's worth (12 pipes), all properly scaled for length-to-diameter ratio and  
mouth size. To REALLY do it right, I would suggest an additional rank of  
open pipes (an open pipe speaks an octave higher than a stopped pipe for  
the same length) for listening to SSB... but you would need long ones (i.e.  
up to 8 feet long) to resonate with the predominant frequencies of the human  
voice. (Open pipes speak the fundamental and all harmonics, whereas  
stopped pipes speak the fundamental and odd harmonics only, so you really  
need open pipes for good speech quality. :-)) And don't forget a nice wood  
chest to have all of them sit on. Just imagine, one could have an entire  
WALL devoted to pipes. On a side note, I have never come across brass  
organ pipes. Some may be painted to look like brass (or more likely gold),  
but underneath they are made of zinc, a tin-lead alloy (usually left

unpainted), wood (usually clear pine), or very rarely aluminum.

73, John Martin

From boatanchors@theporch.com Wed Jul 5 20:30:36 1995  
From: Kevin J Pease <kevin@mm1001.theporch.com>  
Subject: Re: Organ pipe speaker(s)  
Message-ID: <Pine.LNX.3.91.950705163639.23943B-1000000@mm1001.theporch.com>

Kevin J Pease  
WB0JZG Mt Juliet, TN.  
mm1001.theporch.com

On Wed, 5 Jul 1995 jmartin@hrlban1.aircrew.asu.edu wrote:

>  
> Yes, you could have separate pipes, each individually tuned and ready to  
> speak whatever CW pitch you wanted to listen to! You could wire all of them  
> in parallel (with appropriate measures to keep the impedance reasonably  
> matched to your audio amp output, or course), then as you varied your BFO  
> to shift the pitch, the sound would physically travel back and forth from pipe  
> to pipe, depending on which one happened to resonate with what your  
> receiver was putting out.

How about surrounding your head with those pipes do that the cw signals  
would have a spacial characteristic. That way it would be easier for your  
mind to discriminate to the different signals.

Would be mentally selective. That would work good in a contest as your  
mind could select the signals to listen to. You could have wide enough  
bandwidth that you would hear most of the activity around your frequency  
but you would have good mental discrimination.

From boatanchors@theporch.com Wed Jul 5 20:30:36 1995  
From: Jeffrey Herman <jeffrey@math.hawaii.edu>  
Subject: Re: Organ pipe speaker(s)  
Message-ID: <Pine.SUN.3.91.950705134532.4292B-1000000@kahuna>

> How about surrounding your head with those pipes do that the cw signals  
> would have a spacial characteristic. That way it would be easier for your  
> mind to discriminate to the different signals.

I recall an article in one of the ham magazines about using stereo



headphones and building a device that would place signals below your zero-beat in the left phone and signals above your zero-beat in the right phone.

Any of you ever see that article and actually build the device?

73 from Hawaii, where today's temps will be 88/70 with 15 knots winds,  
Jeff NH6IL

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995  
From: "Ray L. Mote" <rmote@rain.org>  
Subject: R-648/ARR-41 info needed  
Message-ID: <Pine.SUN.3.91.950704131920.24988A-1000000@coyote.rain.org>

Wally Chambers called and requested the following information on the R-648/ARR-41 receiver (Collins-made airborne job with mechanical digital readout):

1. Need tube lineup
2. Need I.F.
3. Need description of the mechanical filters

Can anyone help with this info?

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995  
From: nx7u@primenet.com (Scott Townley)  
Subject: Radiotron 4th found!  
Message-ID: <199507050813.BAA22360@mailhost.primenet.com>

That's the good news...browsing through Powell's bookstore (Portland, OR; 503-228-3906) I found that they have not one, but two copies of that old classic Radiotron Designer's Handbook, 4th ed. (the big red one).

Now for the bad news...they figured out that they're valuable (maybe they always knew, but I've never seen them at Powells before). Here's the info in case anyone is sufficiently desperate:

ISBN: 1199044466	Price: \$130.00
ISBN: 1199043893	Price: \$125.00 (a bargain!)

I'm glad I've already got my two copies for a combined \$20!

On a related note, the not-quite-so-rare-but-pretty-darn-useful "Radio Engineers' Handbook" by FETerman is also sitting on their shelf for a very reasonable \$13.50. ISBN 6000109075.

I have no affiliation with Powell's other than as a satisfied customer.

Scott Townley  
nx7u@primenet.com

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995  
From: WA6JYJ@ESHOP.UOREGON.EDU (Larry Laitinen WA6JYJ/AAR0ET)  
Subject: SSoFNeB "Executive Auto Antenna Tuners...."  
Message-ID: <950704180243.70a2@ESHOP.UOREGON.EDU>

Has anybody bought the Executive Auto Antenna Tuner listed on the back page of Surplus Sales of Neb catalog #7B??!! If so, can we get a report on this mother of all antenna tuners?

Larry, WA6JYJ

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995  
From: Steve Ellington <n4lq@iglou.com>  
Subject: Re: SSoFNeB "Executive Auto Antenna Tuners...."  
Message-ID: <Pine.SOL.3.91.950704225456.17067B-100000@iglou.iglou.com>

On Tue, 4 Jul 1995, Larry Laitinen WA6JYJ/AAR0ET wrote:

> Has anybody bought the Executive Auto Antenna Tuner listed on the back  
> page of Surplus Sales of Neb catalog #7B??!! If so, can we get a report  
> on this mother of all antenna tuners?  
>

> Larry, WA6JYJ

> Apparently uncle Sam bought them for \$41k. Thats a better deal than the golden camode seats or whatever they bought. Well, It tunes a 10 to 20ft antenna. That is about like the SG-230 at only \$459. Think i would prefer to take my chances on the sgc.  
> 28 volts? Not exactly what everybody has laying around! But if you need a 5kw mobile tuner then this is the one. :) 73

Steve  
n4lq@iglou.com

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995

From: bgraham@tecnet1.jcte.jcs.mil  
Subject: stuck slugs  
Message-ID: <199507041004.FAA28570@uro.theporch.com>

Thanks for all the advice.

In this case, I'm dealing with cracked powdered iron slugs. After they jammed, whoever gorillaewd them and broke thecoil forms, twisting the leads around. I removed them from the radio, opened them, reconnected and epoxyed the coil froms to the bases. rbBoth of them have two slugs and the top slug is cracked. 2 of the four bands adjust and the other two I'm stuck with a 400 khc and a 50 kc error (these are the oscillator coils). I thionk I may just live with it. I do think I want to lube all of the others perhaps with some nice silicon if I can find some that looks suitable.

cheers

Bill  
N5LMX/DA1WG

Who was it that said  
"Hertz rents cars, frequency is measured in cycles per second"?

<G>

B

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995  
From: Steven Wilson <randyw@crl.com>  
Subject: Re: stuck slugs  
Message-ID: <Pine.SUN.3.91.950704054200.1880B-100000@crl3.crl.com>

Most power iron slugs can be glued with "Super Glue". Does not seem to have much effect on the performance.

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995  
From: bill@texan.frco.com (William Hawkins)  
Subject: The reason why we can still enjoy boatanchors  
Message-ID: <9507050546.AA08134@texan.frco.com>

We were sitting around, enjoying the end of another Fourth of July, and listening to a Tom Lehrer album. It occurred to me that the reason that we were not annihilated in WW3 was because of songs like "So Long, Mom"

(I'm off to drop the bomb) and "We Will All Go Together When We Go" (every Hottentot and every Eskimo. When the air becomes uraneous, we will all go simultaneous, yes, we'll all go together when we go.). What ever happened to that genius of the musical barb? Ah, lets do this in email, 'cause its a real stretch to relate Lehrer to this list.

Now, back to a discussion of Mohr's code.

Bill Hawkins bill@bvc.frco.com

From boatanchors@theporch.com Wed Jul 5 13:37:36 1995  
From: haynes@cats.ucsc.edu (Jim Haynes)  
Subject: Re: The reason why we can still enjoy boatanchors  
Message-ID: <199507051716.KAA06213@hobbes.UCSC.EDU>

Well I will add your mailing to the pile of stuff that I periodically print out and send to Tom Lehrer. He teaches here January thru June, and I believe spends the other 6 months in Cambridge MA. He doesn't use a computer, doesn't have email access, but I collect all the stuff about him that shows up in Usenet and send it all over to him. And he has promised to write an official Tom Lehrer FAQ file, but it's taking him a long time to get going on it.

From boatanchors@theporch.com Wed Jul 5 13:37:36 1995  
From: mul@lab1033.berlin.ptb.de (Michael Ulbrich)  
Subject: Thermal runaway question  
Message-ID: <9507051152.AA04318@hamilton.lab1033.berlin.ptb.de>

Hi there,

excuse me for this not strictly BA related question, but it's TUBE related anyway and if I'll find some clues I'll find them on this list.

I recently got a pair of direct heated power triodes (used old Telefunken AD1). One of these tubes exhibits a strange behaviour: it suffers from thermal runaway. While the tube heats up, an increasing amount of grid current starts to flow. Pulling the hot tube from the socket, I can measure a leakage resistance of about 1 MOhm in magnitude between grid and cathode. I think the reason for this leakage current is some kind of deposit inside the tube, which changes conductance with temperature. Is there any chance to remove it, by applying some special external treatment?? Someone suggested the tube might be gassy ... but in that case

I think it won't be possible to measure that leakage resistance of about 1 MOhm.

The inner surface of the glass bulb looks like there has an excessive amount of getter metal been applied during manufacture. Grey metallic shades of varying density everywhere ... but the good one (:-) looks exactly the same.

Any tips?

Thanx ... Michael U.

From boatanchors@theporch.com Wed Jul 5 13:37:36 1995

From: Steve Ellington <n4lq@iglou.com>

Subject: RE: TS-120s S O L D

Message-ID: <Pine.SOL.3.91.950705112126.9514A-1000000@iglou.iglou.com>

TS-120s sold.

Steve

n4lq@iglou.com

From boatanchors@theporch.com Wed Jul 5 13:37:36 1995

From: jmartin@hrlban1.aircrew.asu.edu

Subject: Tuned Speaker Construction

Message-ID: <SA39+A5gyja@hrlban1.alhra.af.mil>

REF: Steve wrote:

Get a piece of 2" thinwall PVC pipe and cut it to 14" long. Recess a small spkr in one end and stuff cotton in behind it. Then cap that end off with a pvc end cap. Drill some large holes on the other side of the spkr so the sound can get out. On the other end, you need to make a wooden piston with a gasket around it. Use a hole saw to cut the plug and make the gasket out of cork just slightly larger than the plug. Hook the speaker to a signal generator and slide the plug in until you reach a peak at 700hz. He says the effect is very pronounced and QRN is virtually eliminated.

=====

In another place at another time I designed and built pipe organs to earn a living (not a good way to get rich, believe me), and I would recommend a few minor changes to make it even more efficient. What you've described here basically is a double length stopped organ pipe, with the speaker diaphragm acting as the languid (the shelf at the mouth of the pipe, forming the bottom of the resonant column which is bounded at the other end by the inner face

of the stopper near the top of the pipe). A stopped pipe having a resonant column one foot long will speak around middle C (approximately 256 Hz) on a piano keyboard. The C an octave above middle C is about 512 Hz, and normally a stopped pipe about 6" long would speak this pitch; the D (one whole note) above this C is fairly close to 600 Hz, and a pipe fractionally shorter than 6" long would speak this pitch.

In making this thing, one obviously needs some physical length of pipe beyond the top end of the resonant column length to allow sealing and adjustment for the movable stopper; 1 to 2 inches is OK. Think of this thing as an antenna; if it is to resonate at 600 Hz, and the pipe is cut 14" long, subtracting 2" yields a resonant column length of just under a foot (taking speaker body depth into account), but 600 Hz corresponds to a stopped resonant column slightly less than 6" long, so the resonant length is two wavelengths long. There is an optimum length-to-diameter ratio for organ pipes, and going to a pipe one wavelength long would demand a very small diameter (less than an inch); I don't know of any speakers that small. For the 12" to 14" length you should try to stick with pipe around 2" or 2.5" diameter. Your speaker will have to be small to fit inside, but I've seen many of these at surplus electronics dealers. Choose a speaker having an outer rim which comes as close as possible to the inner diameter of the pipe.

Standard weight PVC or ABS should be fine... you wouldn't need to use the thin wall pipe. It is important that both the bottom and top of the pipe are sealed, and the pipe cap on the bottom takes care of this; it does not need to be glued, provided it fits the pipe tightly. Mount the speaker directly to the inside of the cap (centered, of course) using a dab of RTV rubber such as GE Silicone caulk on the back of the speaker magnet. Lead the wires out via a small hole next to the magnet and seal them using RTV. Determine where the outer rim of the speaker will lie when the cap is installed on the bottom of the pipe, and saw a slot measuring about 0.5" high by 1.5" wide, with the bottom edge adjacent to the speaker rim, in the side of the pipe. This becomes the "mouth" of the pipe, and thinking of the mouth as a wide window, the rim of the speaker should be adjacent to the bottom sill of the window when assembled. The stopper should be wood, about 1" thick, cut or turned to fit loosely inside the pipe with about 1/16" gap all around; drill a hole in the center of the stopper and glue in a short length of dowel to act as a handle. Cut a round piece of felt (or horsehide, if you can get it) about twice the inner diameter of the pipe, center and glue it to the face of the stopper, and force the stopper about an inch down into the top of the pipe. The felt or leather will seal the stopper but allow it to be adjusted. With the whole thing assembled, blow across the mouth (like a coke-bottle whistle) and listen to the predominant pitch; work the stopper in or out to adjust the resonant frequency. Note, it will resonate around 300 Hz; don't be fooled into thinking it isn't working right; at 600 Hz you'll just be doubling things.

Aesthetics? You could make and attach a long thin conical "foot" and spray the whole thing with gold paint, and it would look like an organ pipe. Not too

many of those in ham shacks, I suspect.

By the way, I'm still looking for a 'doghouse' power supply for a National SW-3... no responses yet. Anyone out there have one in their 'junk' pile?

73, John Martin

From boatanchors@theporch.com Wed Jul 5 13:37:36 1995  
From: Grant Youngman <gyoungma@gtetel.com>  
Subject: RE: Tuned Speaker Construction  
Message-ID: <Chameleon.4.00.4.950705121934.grant@nq5t.gtetel.com>

>=====

>In another place at another time I designed and built pipe organs to earn a  
>living (not a good way to get rich, believe me), and I would recommend a few  
>minor changes to make it even more efficient. What you've described here  
>basically is a double length stopped organ pipe, with the speaker diaphragm  
>acting as the languid (the shelf at the mouth of the pipe, forming the bottom  
>of the resonant column which is bounded at the other end by the inner face  
>of the stopper near the top of the pipe). A stopped pipe having a resonant  
>column one foot long will speak around middle C (approximately 256 Hz) on  
>a piano keyboard. The C an octave above middle C is about 512 Hz, and  
>normally a stopped pipe about 6" long would speak this pitch; the D (one  
>whole note) above this C is fairly close to 600 Hz, and a pipe fractionally  
>shorter than 6" long would speak this pitch.

>

Now this would be interesting. Change the scale of the tube, and you could be listening to a flageolet one day, or put a little hole in the stopper and have a rohrflot the next. Or maybe go all out and build up a 5 rank cornet.

: -)

Grant/NQ5T

From boatanchors@theporch.com Wed Jul 5 20:30:36 1995  
From: Steve Ellington <n4lq@iglou.com>  
Subject: RE: Tuned Speaker Construction  
Message-ID: <Pine.SOL.3.91.950705134907.8584A-100000@iglou.iglou.com>

On Wed, 5 Jul 1995, Grant Youngman wrote:

>  
> >=====

> >In another place at another time I designed and built pipe organs to earn a  
> >living (not a good way to get rich, believe me), and I would recommend a few  
> >minor changes to make it even more efficient. What you've described here  
> >basically is a double length stopped organ pipe, with the speaker diaphragm  
> >acting as the languid (the shelf at the mouth of the pipe, forming the bottom  
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> >of the stopper near the top of the pipe). A stopped pipe having a resonant  
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> >whole note) above this C is fairly close to 600 Hz, and a pipe fractionally  
> >shorter than 6" long would speak this pitch.

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> listening to a flageolet one day, or put a little hole in the stopper  
> and have a rohrflot the next. Or maybe go all out and build up a 5 rank  
> cornet.

>  
> :-)  
>  
> Grant/NQ5T

>Wow. Just think, CW sound with the rich quality of a fine pipe organ.  
> Gives me big ideas like making the tube from brass. A miniture pipe  
> organ pipe would look good on my desk next to my Schurr key paddle!  
> Thanks and 73.

>

Steve  
n4lq@ig1ou.com

From boatanchors@theporch.com Wed Jul 5 20:30:36 1995  
From: Kevin J Pease <kevin@mm1001.theporch.com>  
Subject: Re: Tuned Speaker Construction  
Message-ID: <Pine.LNX.3.91.950705124703.19116B-1000000@mm1001.theporch.com>

If resonances can work on harmonics how would one prevent this pipe from  
responding at 300,600,900,1100 HZ etc. Is there a way to build a pipe  
that would not work eficently on harmonics ?



Kevin J Pease  
WB0JZG Mt Juliet, TN.  
mm1001.theporch.com

From boatanchors@theporch.com Wed Jul 5 20:30:36 1995  
From: "Roberta J. Barmore" <rbarmore@indy.net>  
Subject: RE: Tuned Speaker Construction  
Message-ID: <Pine.3.89.9507051326.B18731-0100000@indy3>

On Wed, 5 Jul 1995, Steve Ellington wrote:

[Quoted quotes in re tuned speakers, including the \*wonderful\* info  
from the resident organ-builder deleted for brevity]  
> >Wow. Gives me big ideas like making the tube from brass. A miniture pipe  
> organ pipe would look good on my desk next to my Schurr key paddle!

Steve, for extra credit you might want to look into a small tank of  
compressed air and an automotive solenoid valve--the very thing for  
sending code practice to co-workers! :) It'd make an impression for sure.

But more seriously folks, nobody has mentioned that Meissner built a  
very nice commercial version of the tuned speaker, the 9-1026 Uni-Signal  
Selector. It looks rather like a cpo, a semi-streamlined dark box of  
about shoebox size, with round, grille-cloth covered openings on top and  
front and three chromed trim strips running from the far side of the top  
opening to just below the front one; under that, there's a cut-over  
swtich so you can use a wideband speaker for 'phone work, and an acoustic  
jack (!) for stethoscopic headphones.

With a bandwidth of 25 cycles centered on 1 kc, the ads say "for CW  
only," and even if that 25-cy. BW is just the half-power points, they're  
not kidding! It was available at least as early as '40, still around in  
'43, and one shows up in a pix of a 99% Meissner-equipped station in the  
'46 E&E Handbook, though that could easiy be a prewar photo.

...Has anyone \*ever\* seen one of these critters? It would be fun to  
try one, though a little awkward--rated impedance is about 4K, and there's  
no DC continuity. (>sigh<, yet another use for the "unobtainium"  
high-reactance AF chokes of yore!)

(I do plan to try an "organ-pipe" resonant speaker, though being an  
obnoxious purist I'm pondering either a square column or hunting up a  
fiber/Bakelite tube of the proper size--PVC isn't really 1939/40 stuff!)

73,  
--Bobbi

From boatanchors@theporch.com Wed Jul 5 20:30:36 1995  
From: rdkeys@unity.ncsu.edu  
Subject: Re: Tuned Speaker Construction  
Message-ID: <199507051839.0AA24301@cc01du.unity.ncsu.edu>

>  
>  
> If resonances can work on harmonics how would one prevent this pipe from  
> responding at 300,600,900,1100 HZ etc. Is there a way to build a pipe  
> that would not work efficiently on harmonics ?  
>  
> Kevin J Pease  
> WB0JZG Mt Juliet, TN.  
> mm1001.theporch.com

Overtones (e.g. harmonics) are desirable in the musical qualities of an instrument, be it a violin or a pipe organ or a CWIST special audio output device.

If you listen carefully to a well resonating tin diaphragm, there will be musical overtones. BUT, the selfresonant characteristics of the diaphragm as relates to the INCOMING audio energy filters out essentially all of the off-resonance incoming signals (e.g., attenuates them to a very low value). Harmonics on the input stream are very low in value. Hence, the resonant diaphragm tends to resonate at its selfresonant input frequency for the audio input, filters out everything else, and then resonates at its overtones some few percent to add a small bit of lustre to the magnificent CW musical note! If a passband harmonic or high tone happens to be more than just a very few cycles off the overtone frequency, it will not be of any interference at all.

LUV them thar audio-mechanical filters!

Right ON!

73/Bob/NA4G

From boatanchors@theporch.com Wed Jul 5 20:30:36 1995  
From: Jeffrey Herman <jeffrey@math.hawaii.edu>  
Subject: Re: Tuned Speaker Construction  
Message-ID: <Pine.SUN.3.91.950705084829.3136C-100000@kahuna>

I believe a pipe such as this could be compared to a helical resonator -

it's design limits it to a specific frequency.

Jeff NH6IL

> If resonances can work on harmonics how would one prevent this pipe from  
> responding at 300,600,900,1100 HZ etc. Is there a way to build a pipe  
> that would not work efficiently on harmonics ?  
> Kevin J Pease  
> WB0JZG Mt Juliet, TN.  
> mm1001.theporch.com

From boatanchors@theporch.com Wed Jul 5 20:30:36 1995  
From: "Hugh D. Stegman" <driver8@red-eft.la.ca.us>  
Subject: RE: Tuned Speaker Construction  
Message-ID: <9507051916.AA26832@red-eft.la.ca.us>

Steve writes:

>Gives me big ideas like making the tube from brass. A miniture pipe  
>organ pipe would look good on my desk next to my Schurr key paddle!

Actually it's a FULL SIZED organ pipe as the size of these is dictated by the tone you want and the laws of physics. Some of the high pitched flute pipes are the size of a pencil. Good for adding partials and making the music sound brighter.

The Organ Historical Society will sell you a very nice pipe by mail order. With a source of air pressure and a fast valve you'd have digital CW!

I once tried a speaker from a car alarm for CW. The frequency response was basically a huge peak around 900 Hz. It worked OK, but these horns are so tacky that it was also super-tinny (lots of harmonic distortion) and a very unpleasant sound. But audio selectivity can be a good approach.

-hugh

From boatanchors@theporch.com Wed Jul 5 20:30:36 1995

From: Grant Youngman <gyoungma@gtetel.com>  
Subject: Re: Tuned Speaker Construction  
Message-ID: <Chameleon.4.00.4.950705155201.grant@nq5t.gtetel.com>

>  
>If resonances can work on harmonics how would one prevent this pipe from  
>responding at 300,600,900,1100 HZ etc. Is there a way to build a pipe  
>that would not work efficiently on harmonics ?  
>  
>Kevin J Pease  
>WBOJZG Mt Juliet, TN.  
>mm1001.theporch.com  
>  
Unless the "scale" of the pipe is very small (small diameter to length ratio)  
the upper partials (or harmonics) will be greatly attenuated, i.e. a large  
scale tube is an effective low pass filter above the point of the first  
natural resonance.

A "stopped" pipe, such as has been described (the stopper in the top) is  
naturally resonant at the what looks like the second harmonic based strictly  
on its length. But this is really the fundamental resonance of this tube  
because of the stopper. The only harmonics you have to worry about are  
the odd ones. A stopped tube naturally rejects even harmonics and produces  
only odd harmonics which is what gives a stopped organ pipe or a clarinet  
its unique quality.

The scale that has been talked about here -- 2+ inches diameter to around  
6" to a foot in length is HUGE compared to the scale of typical organ  
pipes. So the first harmonic of concern (the 3rd) ought to be greatly  
attenuated, and anything above that pretty much non-existent.

Grant/NQ5T

From boatanchors@theporch.com Wed Jul 5 20:30:36 1995  
From: Grant Youngman <gyoungma@gtetel.com>  
Subject: Re: Tuned Speaker Construction  
Message-ID: <Pine.3.89.9507051601.A11254-0100000@jaws.gtetel.com>

On Wed, 5 Jul 1995, Grant Youngman wrote:

>  
> A "stopped" pipe, such as has been described (the stopper in the top) is  
> naturally resonant at the what looks like the second harmonic based strictly  
> on its length. But this is really the fundamental resonance of this tube  
> because of the stopper. The only harmonics you have to worry about are

> the odd ones. A stopped tube naturally rejects even harmonics and produces  
> only odd harmonics which is what gives a stopped organ pipe or a clarinet  
> its unique quality.  
>

Yipes!! Must have been the same virus that got my hard disk.

A stopped pipe is resonant an octave BELOW, not above. Oh well, what's  
a factor of four among friends, anyway. Other comments still apply.

Grant/NQ5T -- one more careless error for the books ... :-)

From boatanchors@theporch.com Wed Jul 5 20:30:36 1995  
From: "Roberta J. Barmore" <rbarmore@indy.net>  
Subject: RE: Tuned Speaker Construction  
Message-ID: <Pine.3.89.9507051748.N22212-0100000@indy1>

Hi!

On Wed, 5 Jul 1995 Michael.J.Knudsen@att.com wrote:  
> Well, to really send code practice around the block, you should use  
> steam, not compressed air, for true authenticity.

Not to get too far off-track but the Small Parts, Inc. catalog has a  
very nice working model (reduced-scale!) kit of an upright boiler for a  
stationary steam engine. (They sell a kit for the engine, too). Don't  
know that it would provide enough steam pressure but it might, and I'd  
advise making the pipe from tin--it'll probably take some finagling to  
make it sing and something that solders easily would be advisable. (John  
Martin, ever worked on a calliope???) Might want a better grade of  
solenoid valve, too, unless you'd care to make the key integral and  
all-mechanical!

> [...] the Meissner info. I take it she's seen a catalog page,  
> not a living example.

Bingo--also the half-page of dope in the '43 Meissner "How To  
Build..." manual, which doesn't tell how to build that particular widget;  
looks like it's both electrically tuned and mechanically resonant, a  
powerful combination! (But to 1kc? 'Druther see 700-600 cycles!)

In re driving it, my SX-28 would do it but the HRO-5 wouldn't; might  
be able to use an output transformer as you suggest but the primary  
inductance tends be lower than a good ol' umpteen-hundred Henry AF choke  
and they're inefficient in such applications, I believe. Two output xfms  
back-to-back might do better for the early HRO-type outputs (plate on one

terminal, B+ on the other, zzzap!) but what a kludge!

> [...] Black Bakelite tube with brass or chrome hardware on a mahogany  
> base -- oooh boy! Chrome-plated brass bathroom sink drain pipe [...]

Here's a thought: I have a pair of Brush/Clevite earphones that had  
got dropped; one side is a little weak. You can drive Brush xtal 'phones  
pretty hard (but they won't take DC) and one of them might be a nice fit  
to a varnished cardboard mailing tube for a first try! Bakelite & brass  
can come later. (And I'm working on getting another pair of Brushes. The  
seller might have more, too--I can look into it if anyone's interested).

73,  
--Bobbi

From boatanchors@theporch.com Wed Jul 5 20:30:36 1995  
From: Steve Ellington <n4lq@iglou.com>  
Subject: RE: Tuned Speaker Construction  
Message-ID: <Pine.SOL.3.91.950705161934.8826C-100000@iglou.iglou.com>

On Wed, 5 Jul 1995, Hugh D. Stegman wrote:

>  
> Steve writes:  
>  
> >Gives me big ideas like making the tube from brass. A miniture pipe  
> >organ pipe would look good on my desk next to my Schurr key paddle!  
>  
> Actually it's a FULL SIZED organ pipe as the size of these is dictated  
> by the tone you want and the laws of physics. Some of the high pitched  
> flute pipes are the size of a pencil. Good for adding partials and  
> making the music sound brighter.  
>  
> The Organ Historical Society will sell you a very nice pipe by mail  
> order. With a source of air pressure and a fast valve you'd have  
> digital CW!  
>  
AAAARRRRGGGG! Don't we have enough digital stuff? What would it take to  
get these manufactures to put decent audio amplifiers in their  
rigs. Most of these \$3,000 transceivers have 10% or more distortion.  
Why is this? Don't they know that this causes "listner fatigue"???

>  
>  
>  
>

>  
>  
>

Steve  
n4lq@iglou.com

From boatanchors@theporch.com Wed Jul 5 20:30:36 1995  
From: rdkeys@unity.ncsu.edu  
Subject: Re: Tuned Speaker Construction  
Message-ID: <199507052341.TAA08510@cc01du.unity.ncsu.edu>

>  
> Hi!  
>  
> On Wed, 5 Jul 1995 Michael.J.Knudsen@att.com wrote:  
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> > steam, not compressed air, for true authenticity.  
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> Not to get too far off-track but the Small Parts, Inc. catalog has a  
> very nice working model (reduced-scale!) kit of an upright boiler for a  
> stationary steam engine. (They sell a kit for the engine, too).

Now THERE's a fine howdy-doo, fer sure. What say we take the engine,  
its boiler, some rubber belting, and a reversed dynamotor or mg set  
suited to the likes of a 6L6 or such, and PRESTO, weuns has next  
years field day rig!

> 73,  
> --Bobbi

I's cans feeels the warm glow of the 6L6 an' the gentle hisssssssssss  
of the boiler and engine, at speed.....(:+}}.....

What wonderful ideas there be floating about in the bilges, mateys,  
with this find and goodly BA crew....!

73/Bob/NA4G

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995  
From: Steven Wilson <randyw@crl.com>

Subject: Re: TUNED SPEAKER QUESTION

Message-ID: <Pine.SUN.3.91.950704053630.1880A-100000@crl3.crl.com>

On Mon, 3 Jul 1995, Steve Ellington wrote:

> Has anyone tried tuning a speaker and cabinet for resonance at a CW pitch  
> of about 600hz? I would like to build one. I don't mean using bandpass  
> circuits. I'm talking about making the box and speaker combination  
> resonate at 600hz. The sharper the better.

>  
>

Steve, I have used various drink cups and cottage cheese containers. It  
does work on small 1/4 to 1 watt audio amplifiers with 2 to 4 inch  
speakers so no reason not to work well on a large scale.

Try it you will like the improvement. de stan ak0b

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995

From: Steve Ellington <n4lq@iglou.com>

Subject: Re: TUNED SPEAKER QUESTION

Message-ID: <Pine.SOL.3.91.950704084856.29539B-100000@iglou.iglou.com>

On Tue, 4 Jul 1995, Steven Wilson wrote:

>  
>

> On Mon, 3 Jul 1995, Steve Ellington wrote:

>

> > Has anyone tried tuning a speaker and cabinet for resonance at a CW pitch  
> > of about 600hz? I would like to build one. I don't mean using bandpass  
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> >  
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> does work on small 1/4 to 1 watt audio amplifiers with 2 to 4 inch  
> speakers so no reason not to work well on a large scale.

>

> Try it you will like the improvement. de stan ak0b

>

> This is one of those things where you end up answering your own  
question. Last night I had a cw qso with AC5P who was using such a



gadget he had built. After giving me the formula which included the speed of sound, relative humidity and square root of the distance to the nearest Walmart, he told me how to build it.

So here we go. Get a piece of 2" thinwall PVC pipe and cut it to 14" long. Recess a small spkr in one end and stuff cotton in behind it. Then cap that end off with a pvc end cap. Drill some large holes on the other side of the spkr so the sound can get out.

On the other end, you need to make a wooden piston with a gasket around it. Use a hole saw to cut the plug and make the gasket out of cork just slightly larger than the plug. Hook the speaker to a signal generator and slide the plug in until you reach a peak at 700hz. He says the effect is very pronounced and QRN is virtually eliminated.

The size of the pipe is not important, the distance between the speaker and the piston is what determines resonance so I think I'll build one about 4" in diameter.

He has his setting vertically on his desk with the speaker holes at the bottom. What about ways to dress this thing up and make it look sharp? Chrome exhaust pipes, speaker grill cloth etc.....

73

Steve  
n4lq@iglou.com

From boatanchors@theporch.com Wed Jul 5 05:26:20 1995  
From: "Frank C. Gilmore Jr." <fgilmore@gxl.woodtech.com>  
Subject: Re: TUNED SPEAKER QUESTION  
Message-ID: <Pine.LNX.3.91.950704132741.11376C-100000@gxl.woodtech.com>

On Mon, 3 Jul 1995, Steve Ellington wrote:

> Has anyone tried tuning a speaker and cabinet for resonance at a CW pitch  
> of about 600hz? I would like to build one. I don't mean using bandpass  
> circuits. I'm talking about making the box and speaker combination  
> resonate at 600hz. The sharper the better. I remember many years ago  
> seeing an add for such a device. It was shaped like a cylinder and had a  
> small speaker. I'd like a larger one for room filling volume.

>  
> Steve  
> n4lq@ig1ou.com  
>  
>  
>  
>  
>  
>

Steve there were several commercial ventures that didn't get off the ground. Off the top of my head I can't recall the name of the one I bought...it was in a round cylinder with the cone firing upward. It was at about 700 hz and pretty sharp resonance...but rattled. Oh did it rattle. I had picked it up at a ham fest and finally gave it to someone. I think either Ten-Tec or Palomar may have also made one.

I do know good old Trimm Featherweights can sure be tuned to a particular CW freq.... been thirty years since I did it but there was an article/hints and kinks or something on how to do it. Ruined them for listening to anything else.....

I have a rare pair of British Brush Maritime earphones that are tuned to 800 hz. And they do sound great but are rather heavy...circa 1935-36.

73,  
Frank  
de K0JPJ ex-W5PVX ....-

From boatanchors@theporch.com Wed Jul 5 13:37:36 1995  
From: Andy Wallace <wallace@mc.com>  
Subject: Re: TUNED SPEAKER QUESTION  
Message-ID: <9507051132.AA09792@jupiter>

----- Begin Included Message -----

From: Steve Ellington <n4lq@ig1ou.com>  
Subject: TUNED SPEAKER QUESTION

Has anyone tried tuning a speaker and cabinet for resonance at a CW pitch of about 600hz? I would like to build one. I don't mean using bandpass circuits. I'm talking about making the box and speaker combination resonate at 600hz. The sharper the better.

----- End Included Message -----

One of the recent (I bought mine in '92 or so) ARRL HINTS AND KINKS has plans for such a speaker. It uses PVC pipe and I believe

it was 4" in diameter. I had thought about building one, but never got a round tuit.

I wouldn't be surprised if it's still in the book.

--Andy

From boatanchors@theporch.com Wed Jul 5 13:37:36 1995  
From: Steve Ellington <n4lq@iglou.com>  
Subject: Re: TUNED SPEAKER QUESTION  
Message-ID: <Pine.SOL.3.91.950705074232.2167A-1000000@iglou.iglou.com>

On Wed, 5 Jul 1995, Andy Wallace wrote:

>  
> ----- Begin Included Message -----  
>  
> From: Steve Ellington <n4lq@iglou.com>  
> To: Multiple recipients of list <boatanchors@theporch.com>  
> Subject: TUNED SPEAKER QUESTION  
>  
> Has anyone tried tuning a speaker and cabinet for resonance at a CW pitch  
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> a round tuit.  
>  
> I wouldn't be surprised if it's still in the book.  
>  
> --Andy  
>  
> Any idea what book this is and how it could go away? Do things do that?

Steve  
n4lq@iglou.com

From boatanchors@theporch.com Wed Jul 5 13:37:36 1995  
From: rdkeys@unity.ncsu.edu  
Subject: Re: TUNED SPEAKER QUESTION  
Message-ID: <199507051408.KAA08105@cc01du.unity.ncsu.edu>

> ----- Begin Included Message -----  
>  
> From: Steve Ellington <n4lq@iglou.com>  
> To: Multiple recipients of list <boatanchors@theporch.com>  
> Subject: TUNED SPEAKER QUESTION  
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>  
> I wouldn't be surprised if it's still in the book.  
>  
> --Andy

These are common threads. There have been many various contraptions  
to make better CW audio sound devices.

1. IN THE OLDEN DAYS, when ``Baldies'' were king, and tin diaphragms were the Jacks of all trades, one used to take the ear pieces and loosen the caps slightly until they resonated at the selfresonant frequencies of the tin diaphragms. It made an audio mechanical filter that is quite effective (Art Collins, you are entitled to one rolling over). I still use this method quite effectively. My OM, if I remember correctly, turned me onto this one, from his days at sea with spark/arc rigs, in the mid '20's. But, matey, ye needs of course to use real tin cans, ifs 'n ye remembers those.....
2. IN THE OLDEN DAYS, when ``audions'' were still high fashion, and the Radio Corporation of America was just beginning to market those hallowed '00's and '01's (note no ``A'' yet), there was a very interesting device that used a resonant tube and a stethoscope earpiece along with a single tin can earphone to make a very good tunable audio filtering device (look at your QST's back about 1920 or so).

3. About 1970 or so, there was a company marketing a pvc pipe affair that worked like a selfresonant organ pipe, with a little 4 inch speaker in the bottom. I bought one about 5 years ago, and it is OK, but not nearly as good as the loosened tin diaphragm method. Maybe this has some relationship to the methods mentioned as being described in the ``Hints and Kinks''.
4. The standard LS-3 and LS-\*\*\* speaker (the tin one of Vietnam era Army mobile radio sets), both resonate quite effectively at their cone resonant frequencies. The LS-3 resonates at about 300hz, perhaps a bit low for some ears, but fine by me, and the LS-\*\*\* resonates at about 800 hz.
5. The best CW filter is still the greymatters between yer ears matey!

73/Bob/NA4G

```
*****
* 73 TU SU VA DE NA4G          ``Boat Anchor Bob'', an ol' CW fart. *
*****
* Morse has been in the family for over 100 years.                  *
* Morse radiotelegraphy (Spark/CW) has been in the family since 1914. *
*****
* May you have fair winds and following seas on your watch at the key. *
*****
```

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Subject: Re: TUNED SPEAKER QUESTION  
Message-ID: <Pine.SOL.3.91.950705110031.1036B-100000@iglou.iglou.com>

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> 73/Bob/NA4G  
>

```

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> *****
> * Morse has been in the family for over 100 years. *
> * Morse radiotelegraphy (Spark/CW) has been in the family since 1914. *
> *****
> * May you have fair winds and following seas on your watch at the key. *
> *****
>
>Good suggestions. I'm gonna build something here. Rube Goldberg move over.

```

About a year ago, I aquired a scraped fire alarm speaker from our building. It consisted of a red metal case and a 4" speaker. The speaker had a clear, plastic cone. I brough this home and hooked it up to the rx and wow!! CW stood out like a Twinkie in a Chinese Resturant. After using that thing for a few months, I got the brillant idea of putting it in my van. It had two threaded screw holes in the magnet with which I used to fasten a couple of L brackets to. Well when I did that, It somehow loosened up the magnet and misaligned the voice coil and of course ruined the little speaker. I wonder if anyone would miss one of these red speakers on the wall? 73

Steve  
n4lq@iglou.com

From boatanchors@theporch.com Wed Jul 5 13:37:36 1995  
From: morgan@speckle.ncsl.nist.gov (Roy Morgan)  
Subject: WANTED: R-390 Antenna Coil (4-8 Mc.)  
Message-ID: <9507051417.AA23330@speckle.ncsl.nist.gov>

Anchorites,

I traced the trouble in my R-390 (NON-A) to a burned-out antenna input coil. I think someone transmitted into it via the whip antenna jack.

Who's got one for sale or trade (Or a whole RF section)?

Mine is marked:

T204  
4-8 MC  
MOTOROLA  
324-A-191

SICKLES "C"

294525

-- Roy --

Roy Morgan / Tech A-266 / NIST / Gaithersburg MD 20899

(National Institute of Standards and Technology, formerly NBS)

301-975-3254 Fax: 301-948-6213 Internet: morgan@speckle.ncsl.nist.gov

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